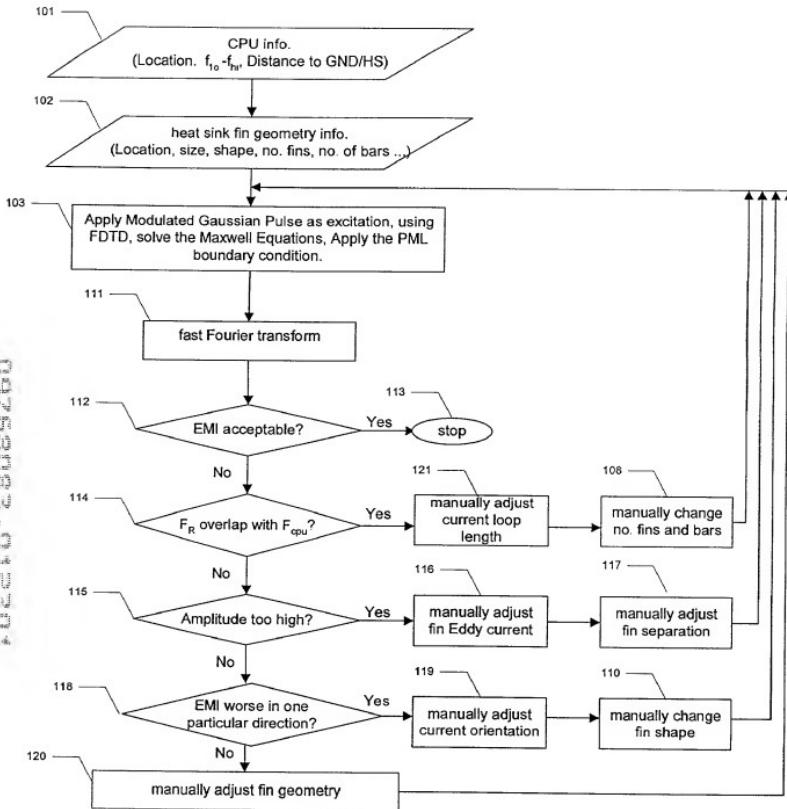


Note:

HS	— Heatsink
$f_{lo}$ - $f_{hi}$	— frequency window range
$F_R$	— Resonance frequency of the heatsink
PML	— Perfect Matched Layer
FDTD	— Finite Difference in Time Domain
GND	— Ground
FFT	— Fast Fourier Transform

FIG. 1



Note:

- HS --- Heatsink
- $f_{lo}-f_{hi}$  --- frequency window range
- $F_r$  --- Resonance frequency of the heatsink
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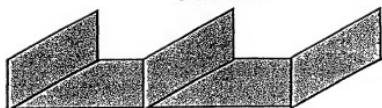
FIG. 1A

Case A



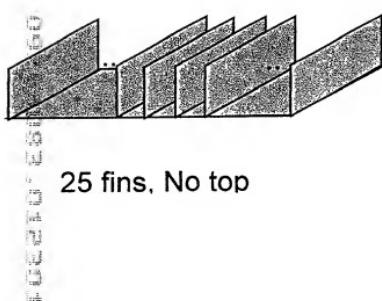
No fin, No top

Case B



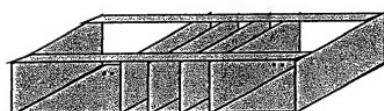
3 fins, No top

Case C



25 fins, No top

Case D



25 fins, 2 top bars

Fig. 2

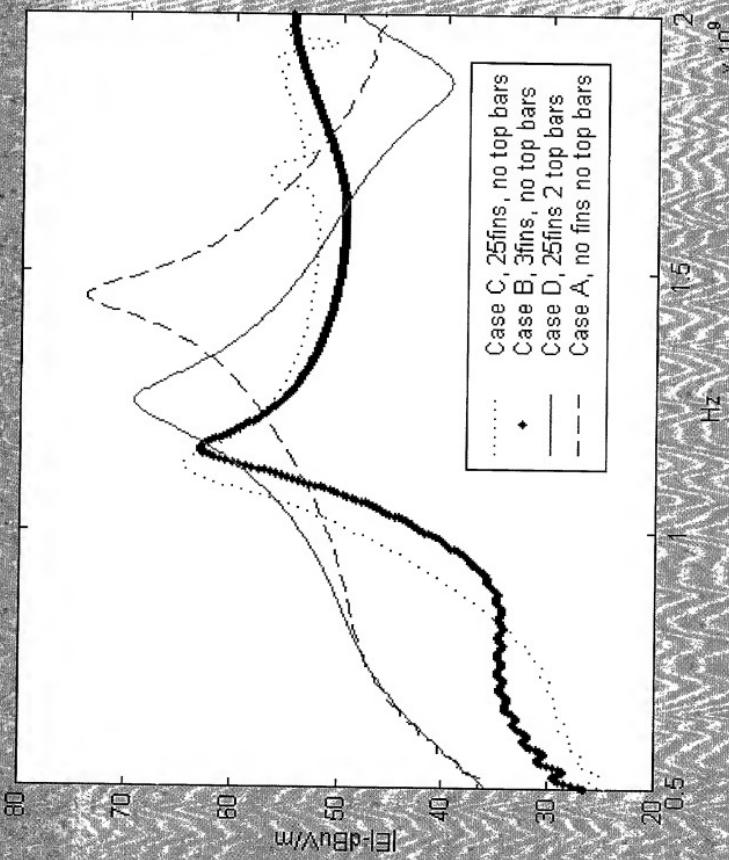


Fig. 3

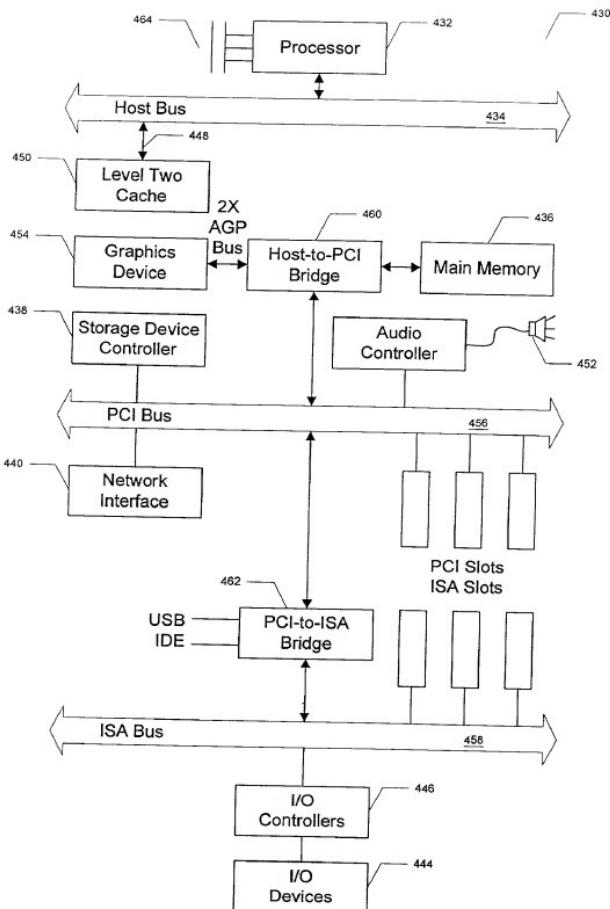


FIG. 4